NAVSEA S0400-AD-URM-010/TUM
TAG-OUT USER'S MANUAL
REV 06, ACN 1/A

BRIEFING CONTENT:

- ***CHANGES SUPPORTING CFR 1915.89 IMPLEMENTATION***
- ***NEW DANGER/CAUTION TAGS***
- ***EXPANDING 688 CLASS TAGGING OF PUSH BUTTON SWITCHES TO ALL CLASSES***

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NEW REFERENCE (K):

29 CFR 1915 SUBPART F
SECTION 1915.89
CONTROL OF HAZARDOUS ENERGY
(LOCK-OUT/TAGS-PLUS)

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BACKGROUND

CFR 1915.89 established new standards on general working conditions in shipyard employment including control of hazardous energy. This CFR allows specific exemptions for shipboard tag-outs when Navy Ship's Force personnel serve as the lockout/tags-plus coordinator and maintain control of the machinery per the TUM. In order to meet the requirements of CFR 1915.89 the following changes have been made to the TUM via ACN 1/A:

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IMPLEMENTATION

Fleet Forces, Naval Supervising Authorities and other work authorizing activities are to implement this change by 31 October 2011 or when operationally feasible. Both ships and repair activities working aboard should use the same revision and advance change notice. Manual holders unable to implement this change by 31 December 2011 should notify NAVSEA in writing stating the reason for the inability to implement and the expected implementation date.

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1.1.1 - ADMINISTRATIVE

Deleted paragraph 1.1.1c allowing existing tag stock to be used until depleted.

(see section on new tags later in this presentation)

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1.2 - APPLICABILITY

Removed the applicability option for non-reactor plant systems and equipment prior to system turnover to Ship's Force during new construction.

"1.2.b .. For non-reactor plant systems and equipment prior to system turnover during new construction, hazardous energy control shall be per CFR 1915.89 *[new reference (k)]*."

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1.3.3 – RA RESPONSIBILITIES

Clarified that the repair activity component contractor training and qualification exception only applies to not being qualified per paragraph 1.4.2. Training is required to meet paragraph 1.4.1.

"1.3.3.d(1) Component contractors who are qualified in accordance with paragraph 1.4.2 of this manual shall perform their duties as RA in the following manner: ..."

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1.4 – TRAINING AND QUALIFICATIONS

Section 1.4.1 was modified to delete the minimum training topics required for personnel indoctrination training on the use of danger tags. This list is unnecessary given that the first sentence already states the requirements.

"1.4.1 All individuals who perform work aboard Naval Vessels shall be indoctrinated in basic purpose, use and restrictions associated with this manual."

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APP C – REPAIR ACTIVITY TAG-OUTS

Added a reactor plant exempted NOTE to Appendix C, Section 2, that allows the RA to perform tag-outs without Ship's Force involvement and exemptions for decommissioned ships and during new construction:

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"NOTE: Where Repair Activity (RA) tag-outs are hung by civilian personnel in support of work execution, the RA must ensure local requirements are in place to meet all reference (k) *(CFR 1915.89)* requirements without application of the exception notes in reference (k); which apply only when the tag-out is executed by Navy Ship's Force personnel. (This note does not apply to tag-outs performed on reactor plant systems and equipment, and for support systems and test equipment connected to the reactor plant.)"

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NEW
DANGER / CAUTION TAGS

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Revised Appendix D to add the new Danger and Caution Tag figures and their overviews including attachment device changes. The new tags are available under the following NSN's:

DANGER TAG - NAVSEA 9890/08 (REV. 5/11): NSN #0116-LF-128-0400

CAUTION TAG - NAVSEA 9890/05 (REV. 5/11): NSN # 0116-LF-127-9200

(Each unit of issue order provides a roll of 500 tags and 500 50-lb unlocking strength nylon cable ties)

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IMPLEMENTATION

- Current tags will continue to be used until new tag stock has been procured. Once the new danger and caution tags are received in local inventory, existing local inventories of paper tags and attachment devices shall be purged.

Tags that are in use (hanging) are NOT required to be replaced. All new tag-outs and replacement tags shall use the new tags.

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TAG DESIGN

- The new DANGER/CAUTION tags are made of a more durable polyolefin material.
- The tags were designed to be more compatible with SOMS labels.
- A perforation has been incorporated in the tags for ease of voiding tags via destructive tearing.

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ATTACHMENT

- Tied string is no longer allowed as an attachment means.
- Tape is only an acceptable substitute if there is no feasible way to attach the tag.
- Cable ties (provided with the tag orders) shall be installed loosely; do not over-tighten due to possibility of equipment damage when cutting to remove.
- Monofilament line is an acceptable substitute for those applications that cannot receive cable ties.

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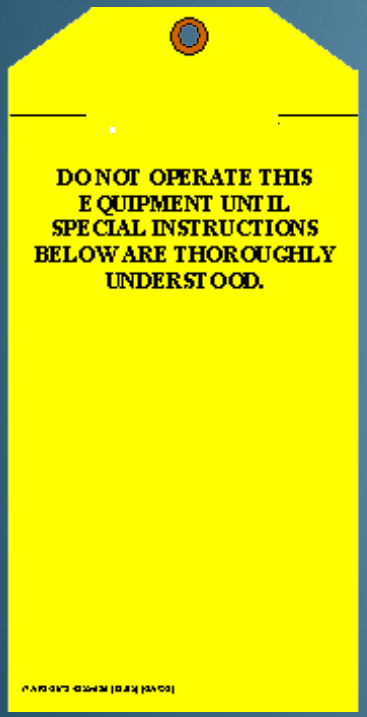
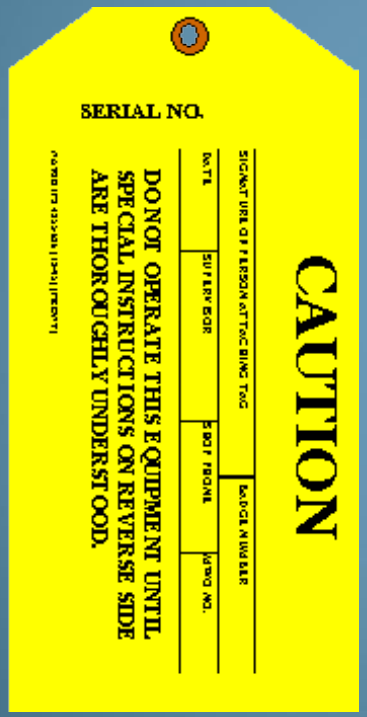
OLD TAGS

CAUTION TAG



Back side

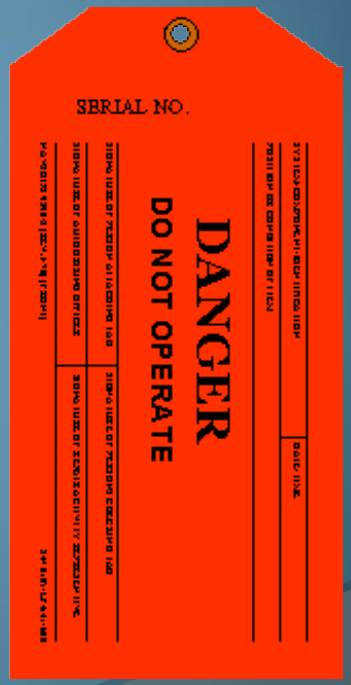

SERIAL NO.
CAUTION
DO NOT OPERATE THIS EQUIPMENT UNTIL SPECIAL INSTRUCTIONS ON REVERSE SIDE ARE THOROUGHLY UNDERSTOOD.

Front Side

DANGER TAG

DANGER
DO NOT OPERATE
OPERATION OF THIS EQUIPMENT WILL ENDANGER PERSONNEL OR HARM THE EQUIPMENT. THIS EQUIPMENT SHALL NOT BE OPERATED UNTIL THIS TAG HAS BEEN REMOVED BY AN AUTHORIZED PERSON.

Back side



Front Side

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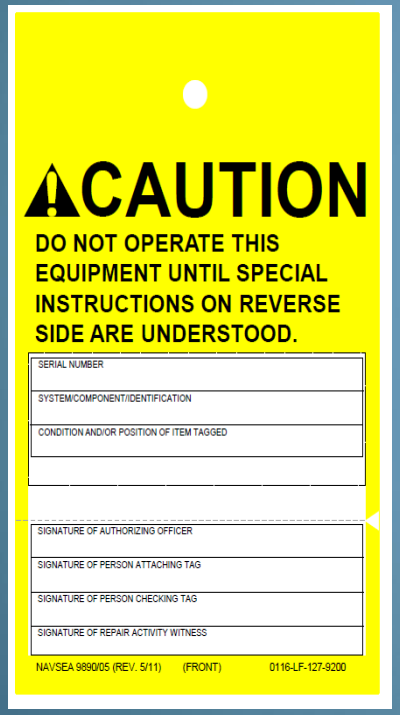
NEW TAGS

CAUTION TAG

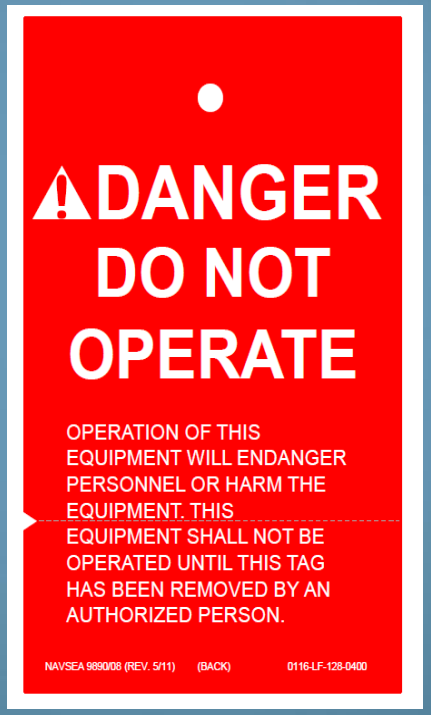
CAUTION
DO NOT OPERATE THIS EQUIPMENT UNTIL SPECIAL INSTRUCTIONS BELOW ARE THOROUGHLY UNDERSTOOD.
NAVSEA 9890/05 (REV. 5/11) (BACK) 0116-LF-127-9200

Back side

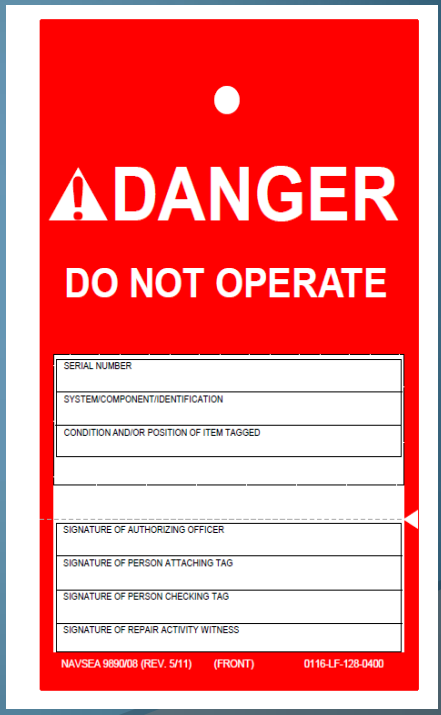

CAUTION
DO NOT OPERATE THIS EQUIPMENT UNTIL SPECIAL INSTRUCTIONS ON REVERSE SIDE ARE UNDERSTOOD.
SERIAL NUMBER
SYSTEM/COMPONENT/IDENTIFICATION
CONDITION AND/OR POSITION OF ITEM TAGGED
SIGNATURE OF AUTHORIZING OFFICER
SIGNATURE OF PERSON ATTACHING TAG
SIGNATURE OF PERSON CHECKING TAG
SIGNATURE OF REPAIR ACTIVITY WITNESS
NAVSEA 9890/05 (REV. 5/11) (FRONT) 0116-LF-127-9200

Front Side

DANGER TAG


DANGER
DO NOT OPERATE
OPERATION OF THIS EQUIPMENT WILL ENDANGER PERSONNEL OR HARM THE EQUIPMENT. THIS EQUIPMENT SHALL NOT BE OPERATED UNTIL THIS TAG HAS BEEN REMOVED BY AN AUTHORIZED PERSON.
NAVSEA 9890/08 (REV. 5/11) (BACK) 0116-LF-128-0400

Back side



Front Side

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OVERVIEWS

Overviews specific to the new tags have been added to Appendix D.

A new block was included on the new Caution Tag: "Condition and/or Position of Item Tagged". This block may be left blank or have the abbreviation "SAI" (See Amplifying Instructions).

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EXPANDING SSN 688 CLASS ALLOWANCE FOR TAGGING PUSH BUTTON SWITCHES

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APP F –TAG-OUT STANDARDS

NAVSEA ltr ser 04X/313 of 21 Sep 2011 (NOTAL)

The SSN 688 Class allowance (above NAVSEA ltr) for danger tagging push button switches which also have mechanical indication to ascertain switch position has been expanded for all ships and has been provided as a change to the electrical switches section of Appendix F as follows:

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APPENDIX F, SECTION 4, ELECTRICAL

4.c(1)(b) The switch is a pushbutton or touch pad whose external appearance without electrical power cannot be used to positively ascertain its position (this includes spring return pushbuttons with illuminated position indicators, and all flat panel displays or touch screens). **Subject to not meeting the conditions of paragraph (a) above, mechanical indication (e.g., a pump differential pressure indication) in the immediate vicinity of the pushbutton satisfies the ability to positively ascertain the component's energy status. This allowance does not apply to voltage or current indications.**